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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/798,058	03/11/2004	John P. Mathis	035718/274644	6450	
29122	7590 06/01/2006	EXAMINER			
ALSTON &		MONDESI, ROBERT B			
PIONEER H	I-BRED INTERNATION.	<u></u>			
BANK OF A	MERICA PLAZA	ART UNIT	PAPER NUMBER		
	TRYON STREET, SUITE	1653			
CHARLOTT	E, NC 28280-4000		DATE MAILED: 06/01/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	o.	Applicant(s)				
Office Action Summary		10/798,058		MATHIS, JOHN P.				
		Examiner		Art Unit				
		Robert B. Mor	ıdesi	1653				
The MAILING DATE of this communication appears on the cover sh t with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 🗌	Responsive to communication(s) filed on							
, —	This action is FINAL . 2b) This action is non-final.							
· · · · · ·	_							
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6) Claim(s) is/are rejected.								
7)	Claim(s) is/are objected to.							
8) Claim(s) 1-20 are subject to restriction and/or election requirement.								
Applicati	on Papers							
9)	The specification is objected to by the Ex	aminer.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	' '							
2) Notice 3) Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-9- mation Disclosure Statement(s) (PTO-1449 or PTO/ r No(s)/Mail Date	SB/08) 5)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	ate	O-152)			

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claim 1-3, 7 and 9-15 drawn to a nucleic acid molecule, an expression cassette comprising the said nucleic acid sequence and a transformant cell of interest having stably incorporated within its genome the said expression cassette, classified in class 532, subclass 23.1.
- II. Claim 4-6, drawn to an isolated polypeptide and a a fusion polypeptide compring at least one polypeptide of interest whereinn the polypeptide of interest is a toxin receptor, classified in class 530, subclass 350.
- III. Claim 8, drawn to an antibody preparation, classified in class 530, subclass 387.
- IV. Claim 16-19, drawn to a method for screening test compounds to identify compounds that bind to a polypeptide, said method comprising: a) providing at least one polypeptide according to claim 4; b) contacting said polypeptide with one or more test compounds under conditions promoting the binding of the test compound to the polypeptide; and c) determining whether the test compound binds to the polypeptide, classified in class 435, subclass 7.1.
- V. Claim 20, drawn to a method of determining the viability of a cell, classified in class 435, subclass 7.1.

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The inventions are distinct, each from the other because of the following reasons:

The nucleic acids of Invention I are related to the protein of Invention II by virtue of encoding same. The DNA molecule has utility for the recombinant production of the protein in a host cell, as recited in the Claims of Invention I. Although the DNA molecule and protein are related since the DNA encodes the specifically claimed protein, they are distinct inventions because the protein product can be made by another and materially different process, such as by synthetic peptide synthesis or purification from the natural source. Further, the DNA may be used for processes other than the production of the protein, such as nucleic acid hybridization assay.

The nucleic acid of Invention I and the antibody of Invention III are related by virtue of the protein that is encoded by the nucleic acid and necessary for the production of the antibody. However, the nucleic acid itself is not necessary for antibody production and both are wholly different compounds having different compositions and functions. Therefore, these Inventions are distinct.

The product of the inventions of Group I and III are not use in the methods of the inventions of Groups IV and V, thus the inventions are patentably distinct.

The proteins of Invention II are related to the antibodies of Invention III by virtue of being the cognate antigen, necessary for the production of antibodies. Although the protein and antibody are related due to the necessary steric complementarity of the two, they are distinct Inventions because the protein can be used in another and materially different process from the use for the production of the antibody, such as in a pharmaceutical composition in its own right, or to assay or purify the natural ligand of

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the protein (if the protein is itself a receptor), or in assays for the identification of agonists or antagonists of the receptor protein.

Inventions II and IV, II and V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the product can be used in materially different process, such as the process of making anti-bodies.

Inventions IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs, modes of operation, and effects. The invention of Group IV is a method for screening test compounds to identify compounds that bind to a polypeptide, said method comprising: a) providing at least one polypeptide according to claim 4; b) contacting said polypeptide with one or more test compounds under conditions promoting the binding of the test compound to the polypeptide; and c) determining whether the test compound binds to the polypeptide, where as the invention of Group V is a method of determining the viability of a cell.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, different search and divergent subject matter restriction for examination purposes as indicated is proper.

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The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain

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dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

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Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert B. Mondesi whose telephone number is 571-272-0956. The examiner can normally be reached on 9am-5pm, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert B. Mondesi

05-26-06

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